GENERAL INFORMATION

This manual covers the following Bell & Howell tape recorders: Models 785, 785C, 785L, $785\mathrm{ST}\text{--}4,\ 785\mathrm{X},\ \mathrm{and}\ 785\text{--}4\mathrm{TS}.$

The differences between these models are as follows: Model 785-4TS will record four tracks monaural or play back two or four track pre-recorded stereo tape; Model 785 is designed for 117 volt, 60 cycle AC operation; Model 785-C is designed for 117 volts, 50 to 60 cycle AC operation; Model 785-L is equipped with a 3-wire power cable and grounding type plug; Model 785-X is designed for 110 or 220 volts, 50 or 60 cycle AC.

All models will accept reels up to 7 inches in diameter. Each mode of operation is controlled by a pushbutton.

The tape speeds are 3 3/4 ips and 7 1/2 ips. Using a 1200 ft. reel of tape on four tracks, the playing or recording time at 3 3/4 ips is four hours; at 7 1/2 ips is two hours.

Connect the recorder to the power source specified for the model being used.

Supplied By:

Bell & Howell Co. 7125 North Kimball Avenue Chicago 45, Illinois

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of

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DATE 1 - 62 **SET 562**

FOLDER

BELL & HOWELL MODELS 785, 785L, 785ST-4, 785X, 785-4TS

FUNCTION OF CONTROLS

Off-Volume

Turning this control clockwise turns the recorder on. Further rotation increases the volume.

Tone

Rotating the control clockwise emphasizes the high frequencies (treble). Rotating the control counter-clockwise emphasizes the low frequencies (bass).

Monitor

To listen when a recording is being made, move the switch to the monitor position.

Channel Selector

The channel selector selects the channel to be used for recording or playing back a prerecorded tape.

Play

Places the recorder in the play mode of operation when depressed.

Rewind and Forward

Depressing the rewind button will rewind the

tape at a rapid speed. Depressing the forward button will advance the tape at a rapid speed.

Stop

Depressing this button will stop the transport mechanism when in any mode of operation. This button must be depressed when going from one mode to another.

Record

To record, depress the record button and while holding it down depress the play button. This prevents accidental erasure.

Pause

Sliding the button to the left will temporarily stop the mechanism without taking the recorder out of its mode of operation. Release the button to proceed.

Speed Change

Pull the speed change shaft up for $3\ 3/4$ ips operation and down for $7\ 1/2$ ips operation. Before operating the speed change shaft, make certain the stop button is depressed.

OPERATING INSTRUCTIONS

Threading the Tape

- 1. Depress the stop button.
- 2. Place a full reel of tape on left-hand spindle.
- 3. Place an empty reel on the right-hand spindle.
- 4. Unwind about two feet oftape from the full reel. Hold a section taut and insert it in the tape slot. Insert the free end into one of the slots in the empty reel and turn the empty reel by hand to secure the tape to it and to take up the slack.

Recording

- Set the channel selector to the type of recording to be made.
- 2. Thread the tape.
- 3. Set the speed change shaft to the desired speed.
- Plug the microphone into the microphone input jack to make a live recording or it may be placed in front of the loudspeaker of a radio, phonograph, or television set.
- 5. To make recordings from a radio, phonograph, or television set without getting extraneous noise in the recording, connect one end of a patch cord to the speaker terminals of a radio, phonograph, or television receiver. Plug the other end of the patch cord into the Radio-Phono input jack.
- 6. Turn the Off-Volume control on.

- 7. Depress the Record and Play buttons.
- 8. Slide the pause button to the left and hold while adjusting the recording level.
- 9. Place the Monitor switch in the Normal position.

Playing a Recording

- Set the channel selector for the type tape being played.
- 2. Thread the tape.
- Set the speed change shaft to the speed at which the recording was made.
- 4. Depress the Play button.
- 5. Adjust the volume and tone controls to the desired listening level.

Erasing

A tape is automatically erased when a new recording is made. To erase a tape without putting new material on it, run the tape through in the record mode with the volume control turned to its lowest position and remove all input connections.

Pause Lever

The Pause lever allows the operator to temporarily stop the recorder while recording without depressing the Stop button. The Pause lever can be used to obtain the proper volume level before making a recording.

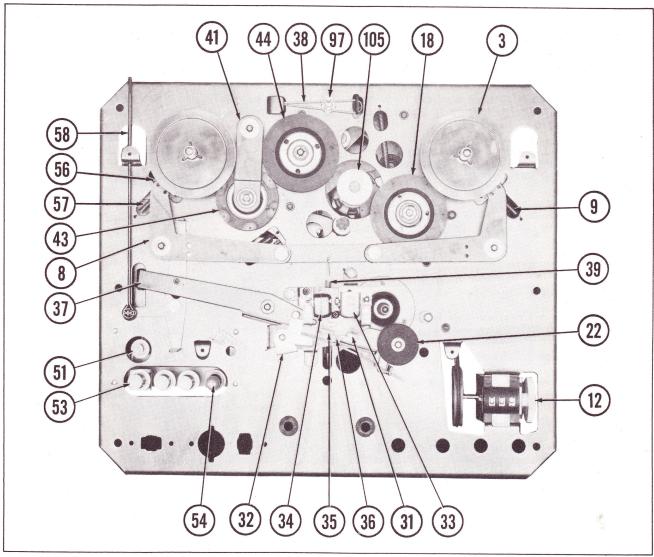


FIG.1 TOP VIEW OF MECHANISM WITH TOP PLATE REMOVED

Playing Dual-Track Tapes

- 1. Place the channel selector in the 1-4 position.
- 2. Thread the tape onto the recorder.
- 3. After the first track is played, take the full reel, turn it over and place it on the left spindle. Place the empty reel on the right spindle.
- 4. Rethread the tape, and the second track is ready to be played.
- To play dual-track stereo, set the channel selector to the stereo position.

Playing 4 -Track Tapes

- 1. Place the channel selector in the 1-4 position.
- After the tape has been played or recorded through on one channel, turn the full reel over and place it on the left spindle and the empty reel on the right spindle.
- 3. Place the channel selector in the 3-2 position.
- 4. After track 2 has been played or recorded, turn

the full reel over and place on the left spindle and the empty reel on the right spindle. Play or record channel 3.

- 5. Place the channel selector in the 1-4 position.
- Again place the full reel of tape on the left spindle and the empty reel on the right spindle. Play or record track 4.

Stereophonic Playback

- Connect a high impedance input of an auxiliary amplifier to the stereo output jack at the right rear of the tape recorder chassis.
- 2. Place the channel selector in the stereo position.
- 3. Tracks 1 and 3 will play back with side number one of the reel up.
- 4. After the recording has been played through, turn the full reel over so the number two side will be up and place it on the left spindle.
- 5. With the number two side up, tracks 4 and 2 will be reproduced.

Rewind and Fast Forward

When a tape has been completely played or recorded, press the stop button to stop the recorder. To return the tape to the original supply reel, press the rewind button. To advance the tape rapidly, press the forward button. Be sure to take up any slack tape before operating either of these controls to prevent breaking the tape since it travels at a high rate of speed in these modes of operation.

CAUTION: Always stop the recorder completely when going from rewind or forward to another mode.

Program Indicator

This permits the logging of material as it is

recorded, or relocating previously logged material. The indicator should be set at "000" at start of the tape, then any desired point on the tape can be logged or relocated.

Public Address

To use the recorder as a public address system, plug a microphone into the microphone input jack and turnthe power on. Remove all tape from the recorder. Set the monitor switch to the monitor position. Depress the record button and lock it in place by depressing the play button.

Keep the microphone well away from the speakers to prevent acoustic feed-back squeal.

DISASSEMBLY INSTRUCTIONS

To Remove Recorder from Case

- Remove the two reel spindles held in place by Phillips head machine screws.
- 2. Remove the control knobs.
- Remove the top plate (6) secured in place by 4 Phillips head machine screws.
- 4. Remove the plastic carrying handle.
- Place the recorder in an upright position and remove the two plastic feet at the back of the case.
- 6. Remove the bottom grille.
- Remove the two Phillips head screws accessible through the openings in the metal plastic handle channel support.
- 8. Carefully lift the recorder from the case.

To Remove the tape Transport Mechanism

1. Disconnect the drive motor (80).

- 2. Remove the input and output jacks, function selector switch, and monitor switch.
- 3. Disconnect the head leads.
- 4. Remove the six self-tapping screws holding transport to the speaker mounting plates.
- 5. Carefully lift the transport mechanism from the speaker mounting plates.

To Remove the Amplifier

- 1. Disconnect all plug-in leads.
- 2. Disconnect the slide switch wire link from the slide switch.
- 3. Unsolder the leads to the muting switch.
- Remove the volume and tone control locking nuts.
- Remove the self-tapping screws and washers along the top and bottom edge of the printed circuit board.
- 6. Carefully remove the amplifier assembly.

ADJUSTMENTS

Pressure Roller

- 1. Connect an inch-ounce scale to the end of pressure roller lever assembly (37).
- 2. Pull pressure roller free of capstan.
- 3. If reading is less than 16 in-oz., bend the long spring to increase the pressure.

Take Up Tension

- 1. Place an empty 7" reel on the take-up spindle.
- Attach a short loop of string to the outside edge of the reel.
- Connect agram scale with a minimum reading of 60 grams to the string.

- 4. Hold the scale parallel to the recorder and at a right angle to the take-up spindle.
- 5. Depress the play button and note the reading.
- If the reading is over or below 60 grams, remove the mechanism from the case as described under "Disassembly Instructions".
- 7. Remove the mechanism plate held in place by six Phillips head sheet metal screws.
- 8. Disengage the counter drive belt (65) from clutch pulley (71).
- 9. Remove the clutch pulley (71).
- 10. Slip the tension spring (69) and felt lining (67) off the take-up spindle.

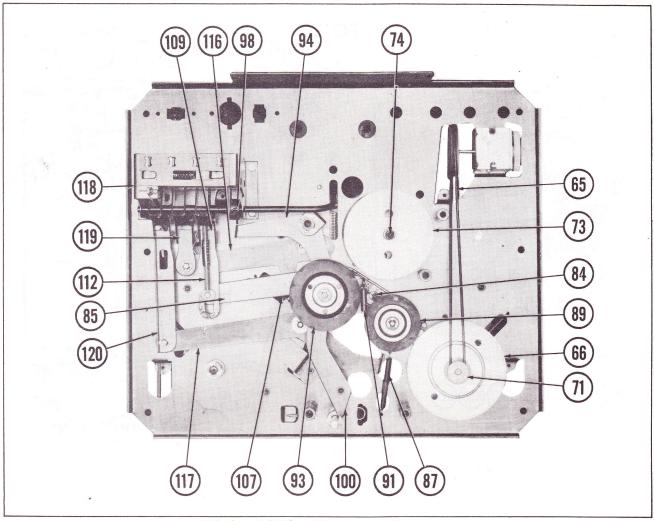


FIG.2 BOTTOM VIEW OF MECHANISM

- II. If the reading was over 60 grams, saturate the felt lining (67) in a solution of one part turbine oil and 15 parts carbon tetrachloride. Allow to dry for 30 minutes before reassembling the clutch.
- 12. If reading was less than 30 grams, replace the tension spring and/or the felt lining.

Tape Reel Spindles

The supply and take-up spindles should be adjusted so the tape does not scrape on the edge of the reels. If they are worn, remove the spindles from flange shaft and add shim washers until the reels are aligned.

CLEANING

The play-record head (33) erase head (34), pressure roller (22), and the capstan should be cleaned periodically. Use a soft cloth and alcohol to clean these parts.

Play-Record Head

- Thread a good prerecorded tape onto the recorder.
- 2. Place the recorder in the playback mode with normal volume.
- 3. Adjust the head (33) for up and down position by loosening the nuts in the side and sliding the head (33) up or down so the top of the pole piece is in line with the top of the tape.

LUBRICATION

The bearings of this recorder were lubricated before leaving the factory. No further lubrication will be necessary.

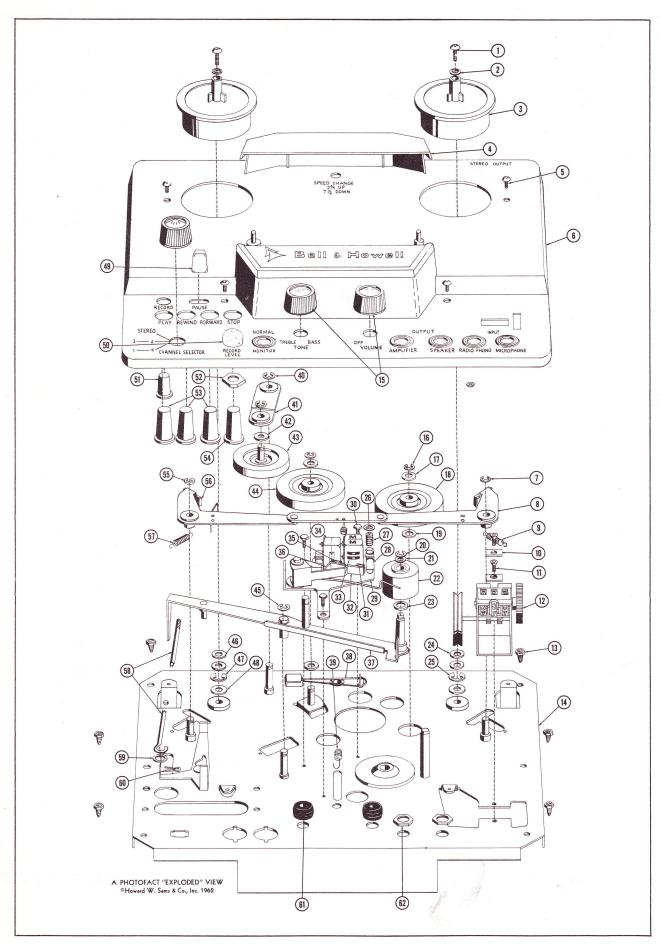


FIG.3A EXPLODED VIEW OF PARTS ABOVE PLATE ASSEMBLY

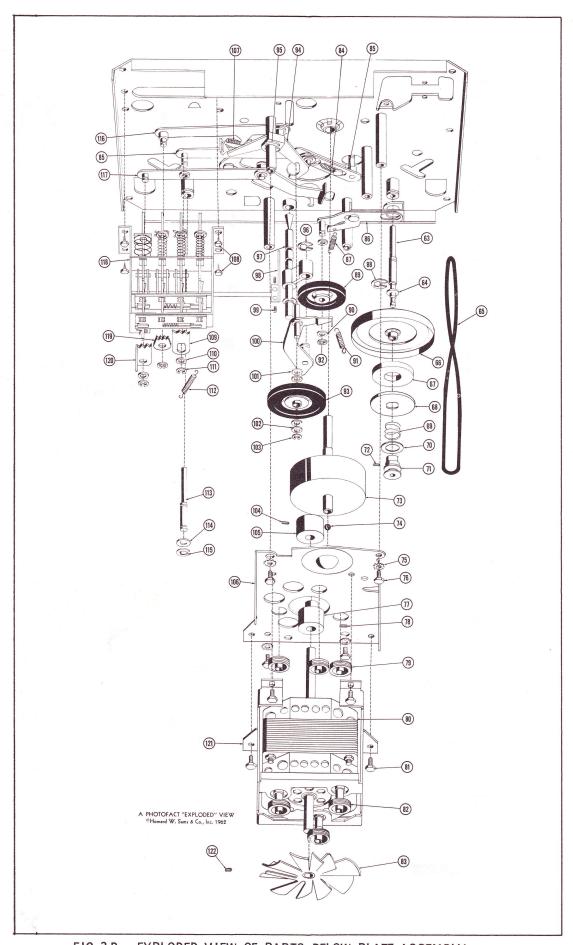
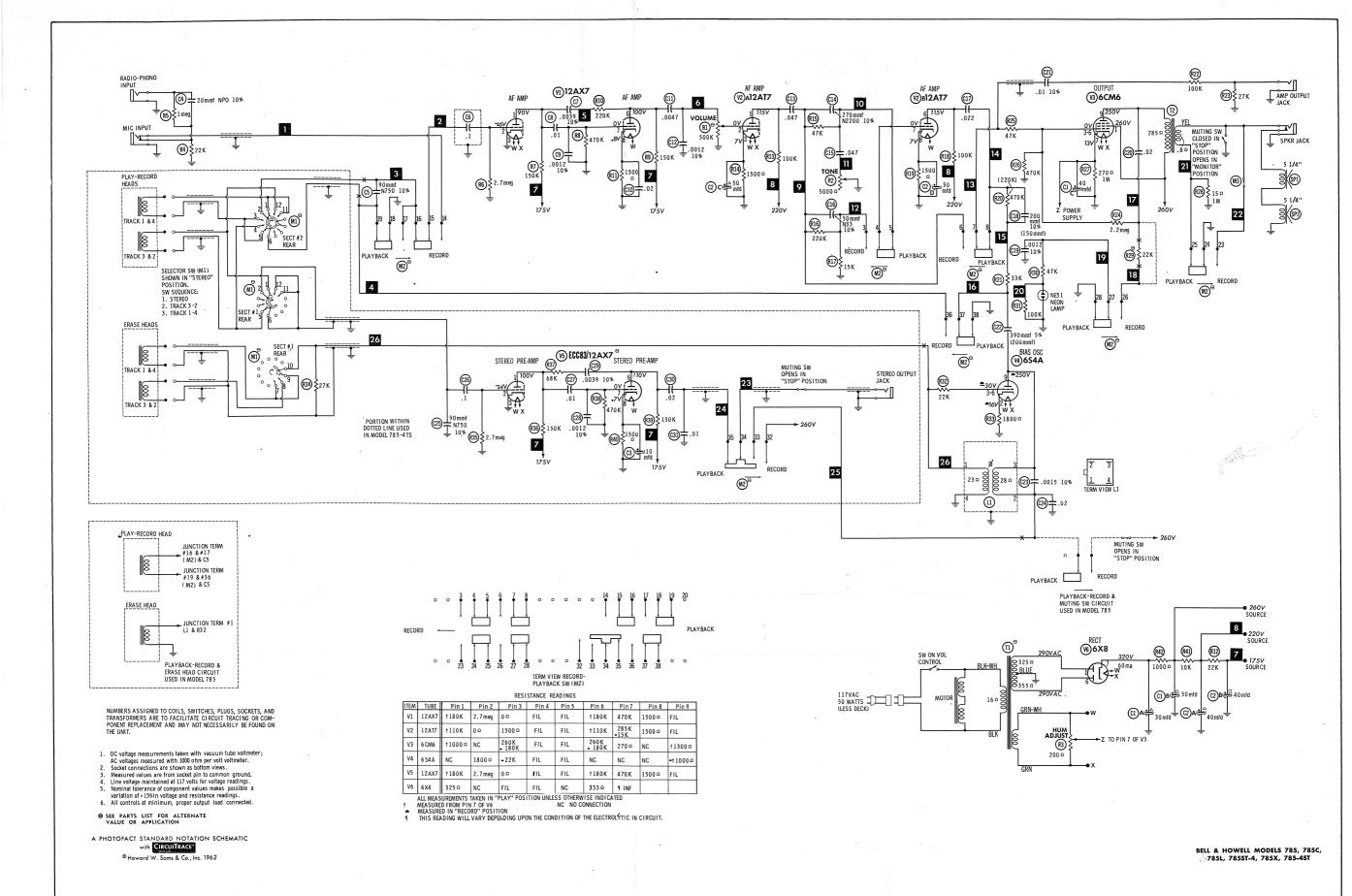
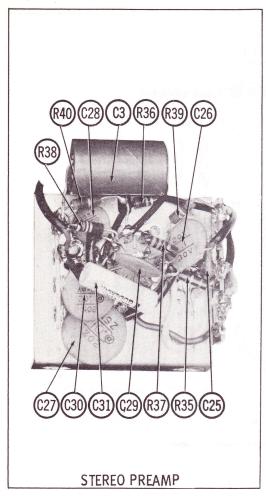
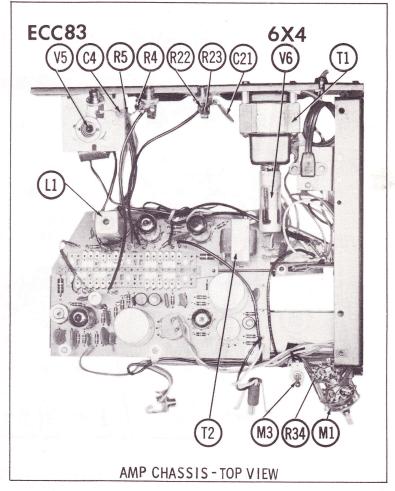
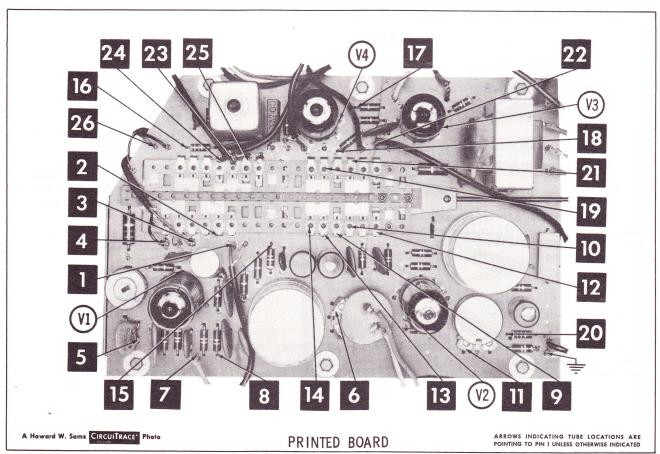


FIG.3B EXPLODED VIEW OF PARTS BELOW PLATE ASSEMBLY









654A

6CM6

R26)(V3)

ELECT. PARTS LIST AND DESCRIPTIONS

TUBES

RESISTORS

	•	GENERAL ELECTRIC	+	RAY	THEON	+	SYLVANIA	•	
ITEM No.	USE	TYPE			ITEM No.	US	SE	TYPE	
V1 V2 V3	AF Amplifier AF Amplifier Output	12AX7 12AT7 6CM6			V4 V5 V6	Bias Osci Stereo Pr Rectifier		6S4A ECC 83/12AX7 6X4	Note 1

Note 1. Used in Model 785-4TS only.

ELECTROLYTIC CAPACITORS

	RAT	ING			REPLA	CEMENT DATA			
No.	CAP.	VOLT.	Bell & Howell PART No.	AEROVOX PART No.	CORNELL- DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
ClA	▲30	450	701800			XC3-39 †			
B	m 50	350					-		
C	40	25							
C2A	4 0	300	701681						PCLS-4560.7*
В	4 0	300							
C	▲50	25							
D	50	25							
C3	10	25	70658	PRS1250	BBR10-25	QT1-5	TC22	TD-10-25	TVA-1204

- † Use Printed Circuit Adapter Kit PMAl.
- * Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

	TIALD CATACITORS										
						MENT DATA					
No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.			
C4 C5 C6 C7	20 NPO 10% 90 N750 10% .1 200V .0039 10%	Note 1	NPO-DI 20 N750-DI 100 DI-4000	DTZ-20 TCN-91	C10Q2C C10Q1C PM6D4	CCTO-200 CCTN-101 CCD-392	CNO-422 CN7-310 JL-239	10TCC -Q20 10TCU-T10 10TS-D39			
C8 C9 C10 C11 C12 C13	.01 .0012 10% .02 .0047 .0012 10% .047 400V	,	BPD-01 DI-1200 BPD-02 BPD-0047 DI-1200 P4151N-047	DD-103 DD-122 DD-203 DD-472 DD-122	BY A10S1 5R5D12 BYB6S2 BY A10D47 5R5D12	CCD-103 CCD-122 CCD-203 CCD-472 CCD-122 4DP-3-473	B-110 GP212 B-120 B-247 GP212	5HK-S10 10TS-D12 5HK-S20 5HK-D47 10TS-D12			
C13 C14 C15 C16 C17	270 N2200 10% .047 400V 50 N33 10% .022 400V	3	P4151N-047 P4151N-047 P4151N-022	DD-503 DD-503	BC6S47J BC6S47J BC6S22J	* 4DP-3-473 * 4DP-3-473 * 4DP-2-223	ACE-6147 ACE-6147 ACE-6122	4SE-S47 4SE-S47 4SE-S22			
C18 C19 C20 C21	200 10% .0012 10% .02 .01 10%	(150) †	DI-200 DI-1200 BPD-02 DI-10000	DD-203 DD-201 DD-122 DD-203	L10T2 5R5D12 BYB6S2 DM6S1	CCD-201 CCD-122 CCD-203 CCD-103	GP320 GP212 B-120 GEM-1611	10TS-T20 10TS-D12 5HK-S20 10TS-S10			
C22 C23 C24 C25 C26 C27 C28 C29 C30 C31	390 5% .0015 10% .02 90 N750 10% .1 30V .01 .0012 10% .0039 10% .02 .01 400V	(200) †	1469-0015 BPD-02 N750-DI 100 BPD-01 DI-1200 DI-4000 BPD-02	DD-203 TCN-91 DA-104 DD-103 DD-122	5R5T39 5R5D15 BYB6S2 C10Q91C H-05P1 BYA10S1 5R5D12 PM6D4 BYB6S2	CM-19B-391J CM-19B-152K CCD-203 CCTN-101 IDP-2-104 CCD-103 CCD-122 CCD-392 CCD-203	B-120 CN7-310 TA-010 B-110 GP212 JL-239 B-120	MS-339 10TS-D15 5HK-D20 10TCU-T10 TG-P10 5HK-S10 10TS-D12 10TS-D39 5HK-S20			
C31	.01 4004	(, 02) †	P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10			

Note 1. Shielded Unit.

- Note 1. Shielded Unit.
 † Alternate Value.
 * Not normally in distributor's stock. Available thru distributor on order to manufacturer.

 CONTROLS

	RATING RESIST- WATTS			REI	PLACEMENT DA	TA		
No.			Bell & Howell PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
RIA B R2 R3	500K Switch 5000Ω 200Ω	122	702008 ① 702007 701849					Volume Power Off-On Tone Hum Adjust

① Part #800749 used in Models 785, 785C, 785L, 785ST-4.

All wattages 1/2 watt, or less, unless otherwise listed.

		REP	LACEMENT DA	TA			REI	PLACEMENT DA	ATA
No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS	No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS
R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23	22K Imeg 150K 470K 150K 220K 1500Ω 22K 100K 1500Ω 47K 220K 15K 100K 1500Ω 47K 33K 100K 33K 100K 27K			(220K) *	R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38	2. 2 meg 47k 470K 270Ω 1W 15Ω 1W 22K 47k 100K 1800Ω 27K 2. 7 meg 150K 68K 470K 150K 150K 150K 150K 150K 150K 150K 150K 150K			Note 1

* Alternate. Note 1. Model 785-4TS only.

COILS (RF-IF)

ITEM No.			REPLACE	MENT DATA			
	USE	Bell & Howell PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	NOTES
Ll	Osc.	800556					

TRANSFORMER (POWER)

No.		RATING		Bell & Howell	Merit	Stancor	Thordarson	Triad	NOTES	
1.10.	PRI.	SEC. 1	SEC. 2	PART No.	PART No.	PART No.	PART No.	PART No.		
Tl	117V@ .47A	580VCT a .060A	6.3V@ 2.6A	800453H					① Part #800442 used in Models 785, 785C, 785L, 785ST-4	

TRANSFORMER (AUDIO OUTPUT)

		200720-200		REPLA				
No.	IMPEDANCE		Bell & Howell PART No.	Merit	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
	PRI.	SEC.	PARI NO.	PART No.	PARI No.	PARI No.	PARI No.	
T2	4500Ω	6-8Ω	800566	/			,	

SPEAKER

				REPLACEME	NT DATA	
No.	TYPE			Bell & Howell	QUAM	NOTES
	SIZE	FIELD	V. C. IMP.	PART No.	PART No.	
	5 1/4" 5 1/4"	PM PM	3-4Ω 3-4Ω	800445 800446	52Al 52Al	

MISCELLANEOUS

ITEM. No.	PART NAME Bell & Howell PART No.		NOTES
M1 M2 M3	Switch Switch Switch Switch	70655 072027 076373 70611	Channel Selector (Rotary Wafer Type) Model 785-4TS only. Record-Playback (Slide Type) Model 785-4TS Record-Playback (Slide Type) Models 785, 785C, 785L,785ST-4 Monitor (Toggle Type)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN		
Power Cord	Use BELDEN I	No.	
Phono Pick-up Arm Cable	Use BELDEN		1725-K ($7\frac{1}{2}$ Ft. Length) 8430 (Two Conductor - Twisted)

785L	BELL &
785L, 785ST-4, 785X, 785-4TS	HOWEL
, 785X,	MODELS
785-4TS	/85, /850

Symptom		Cause	98	Remedy
Clicking noise when recorder is in fast forward or rewind.	1.	Damaged counter.	1.	Check springs in counter or lubricate.
Noisy pushbutton operation.	1.	Lack of lubrication.	1.	Lubricate the neoprene pads on push-button shafts.
Volume or tone controls bind and are difficult to turn.	1.	Printed circuit board not centered.	1.	Reposition the board so the shafts are properly aligned in rubber grommets.
	2.	Lack of lubrication or tacky condition of rubber grommets.	2.	Check condition of rubber grommets and lubricate with silicon grease.
Speed change shaft binds.	1.	Lack of lubrication.	1.	Lubricate with a non-melting lubricant.
Take-up reel does not re- volve in fast forward posi-	1.	Oil on rim of fast forward idler wheel (18).	1.	Clean rim with a soft cloth moistened with alcohol.
tion.	2.	Fast forward lever spring (112)	2.	Replace.
	3.	off or broken. Fast forward idler spring (84) off or broken.	3.	Replace.
Erratic drive on both speeds.	1.	Drive pulley's (77) position incorrect.	1.	The bottom of drive pulley (77) should be 7/32" from top of motor shell.
Take-up reel does not rotate in play or record position.	1.	Take-up idler spring (87) off or broken.	1.	Replace.
in play of record position.	2.		2.	Clean with cloth moistened with alcohol.
	3.	Clutch slipping on clutch wheel.	3.	Reposition clutch pulley(71) and tighten.
Counter does not operate.	1. 2.	Counter defective. Counter belt (65) off or broken.		Replace.
Supply reel does not rotate in	1.	Oil on rewind idler wheel (43)	1.	Clean with cloth moistened
rewind position.	2.	or rewind drive wheel (44). Rewind idler spring (107) off or broken.	2.	alcohol. Replace.
Pitch of sound is low from prerecorded tape.	1.	Capstan drive mechanism slipping.	1.	Remove top panel (6) and clean all driving surfaces with alcohol.
Reels do not stop when stop button is depressed.	1.	Brake actuating spring (39) off or broken.	1.	Replace.
		Brake lining worn. Brake lever (98) loose on shaft.		Replace. Reposition brake lever (98) and tighten.
Wow or flutter		Motor shaft bent. Idler wheel (93) worn.		Replace motor (80). Replace idler wheel (93).
		Flywheel shaft (73) or bearings scored.		If shaft is lightly scored, polish with crocus cloth. If bearings
	4.	Pressure roller (22) binding on shaft.	4.	are scored, replace. Remove pressure roller (22) and clean bearing with alcohol. It shaft is scored, polish with crocus cloth.
	5.	Pressure pads (31) and (35) dirty.	5.	Saturate with alcohol and brush contact surfaces in direction of
		Excessive takeup tension.		tape travel. See ''Adjustments''.
	7.	Improper pressure between capstan (73) and pressure roller (22).	7.	See "Adjustments".

MECHANICAL PARTS LIST

Ref.	Part			Ref.	Part	y.
No.	No.	Description		No.	No.	Description
1	700245	4-40 x 1/4 Truss Head Phillips		61	701367	Rubber Grommets
		Screw		62	800728	Jack Lock Nuts
2	700716	.116 x .281 x .020 Washer		63	800461	Take-up Spindle Shaft
3	800423	Reel Spindle		64	700797	.191 x 7/16 x .015 Fibre Washer
4	800795	Removable Cover		65*	800544*	*Counter Belt
5	700245	4-40 x 1/4 Truss Head Screw		66	076196	Clutch Wheel Assembly
6	076343	Top Plate Assembly		67	800459	Clutch Lining
7	700890	"E" Ring, .187		68	800458	Clutch Plate
8	076190	Brake Assembly		69	800460	Clutch Spring
9	800536	Brake Spring		70	800655	. 484 x 3/4 x . 010 Fibre Washer
10	800599	Counter Mounting Clips		71	800542	Clutch Pulley
11	700088	4-40 x 1/4 Flat Head Screw		72	700424	Set Screw
12	076261	Counter Assembly		73	076231	Capstan & Flywheel Assembly
13	700348	Hex Head Screws		74	800568	Ball Bearing, . 1875 Dia.
14	076189	Mechanism Plate Ass'y.		75	700734	#10 Ext. Tooth Washer
15	701508	Volume, Tone & Channel Selector		76	700230	#10-32 x 3/8 Hex. Head Screw
10	101000	Knobs		77	800462	Drive Pulley
16	700890	"E" Ring, .187		78	700420	#8-32 x 1/4 Set Screw
17	700797	. 191 x 7/16 Fibre Washer		79	70671	Grommets
18	076239	Fast Forward Idler Wheel		80	70670	Motor-Fasco
19	700797	. 191 x 7/16 Fibre Washer		81	700348	#10-1/4 Screw
20	700890	"E" Ring, .187		82	70671	Grommets
21	700806	. 191 x . 375 x . 015 Nylon Washer		83	701587	Fan
22*	800714*	*Pressure Roller		84	800548	Fast Forward Idler Spring
23	700807	. 257 x . 437 x . 015 Nylon Washer		85	076260	Forward Idler Lever Assembly
24	700797	. 191 x 7/16 Fibre Washer		86	076192	Take-up Idler Lever Assembly
25	700889	"E" Ring, . 250		87	010102	Take-up Idler Lever Spring
26	700897	"E" Ring		88	700896	"E" Ring, .437
27	800540	Azimuth Spring		89	076204	Take-up Assembly Idler Wheel
28	000040	Tape Guide		90	700797	Fibre Washer
29	070202	Head Mtg. Bracket Assembly		91	800545	Take-up Idler Spring
30	700343	Hex Head Screws		92	700890	"E" Ring, .187
31	800564	Pressure Pad		93	076180	Speed Change Idler Wheel
32	076274	Record & Play Arm & Pad Ass'y.		94	800576	Retractor
33	70607	Record & Play Head		95	700894	"E" Ring, .375
34	70608	Erase Head		96	700895	"E" Ring, . 312
35	800564	Pressure Pad		97	076199	Speed Change Shaft Assembly
36	076273	Erase Arm & Pad Assembly		98	800624	Brake Lever
37	076185	Pressure Roller Lever Assembly		99	700438	#6-32 x 3/16 Cone Pt. Set Screw
38	800587	Speed Change Shaft Spring	76	100	076198	Speed Change Link Assembly
39	800572	Brake Actuating Spring		101	700806	. 191 x . 375 x . 015 Nylon Washer
40	700890	"E" Ring, .187		102	700806	. 191 x . 375 x . 015 Nylon Washer
41	076191	Rewind Idler Arm Assembly		103	700890	"E" Ring, .187
42	700797	. 191 x 7/16 Fibre Washer		104	700420	#8 - 32 x 1/4 Set Screw
43	076183	Second Rewind Idler		105	800520	Forward & Rewind Pulley
44	076180	Rewind Drive Idler Wheel		106	070219	Motor Mtg. Plate Assembly
45	700890	"E" Ring, .187			800477	
46	700797	. 191 x 7/16 Fibre Washer		107	700345	Rewind Idler Spring
47	700797	"E" Ring, .250		108	076200	#10 x 1/4 Hex Head Screws Forward Lever Link Assembly
48	700889	. 265 x 1/2 x . 030 Fibre Washer		1		
49	076265	Pause Knob		110	700712	.196 x 7/16 x .030 Steel Washer
50	800574	Neon Plastic Cap		111	700890	"E" Ring, .187
51	800574	Record Button		112	800547	Fast Forward Lever Spring
52		The state of the s		113	800479	Rewind Spindle Shaft
53	700477	9/16 - 27 Hex Nut Pushbutton		114	700798	. 265 x 1/2 Fibre Washer
	800439			115	700889	"E" Ring, . 250
54	800441	Stop Button		116	076184	Rewind Lever Assembly
55	700890	"E" Ring, .187		117	076186	Take-up Arm Assembly
56	800478	Brake Lining		118	076263	Pushbutton Assembly
57	800536	Brake Spring		119	076202	Rewind Lever Link Assembly
58	800607	Remote Control Link		120	076201	Pressure Roller Link Assembly
59	700797	191 x 7/16 Fibre Washer 1/16 x 3/8 Cotter Pin		121	070219	Motor Mounting Plate Set Screw
60		I I I I E we U / U (lottom Illim	,	122	700424	SUT SOFOR

^{*} Pressure Roller WALSCO Part No. 1488 * Counter Belt WALSCO Part No. 1410-54